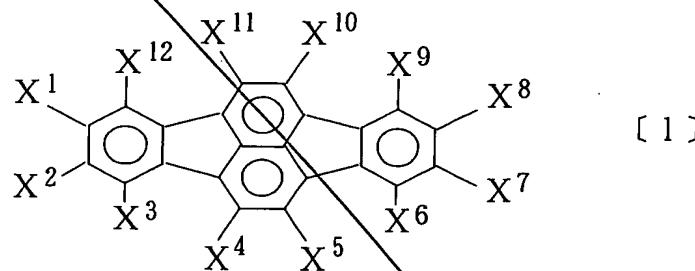
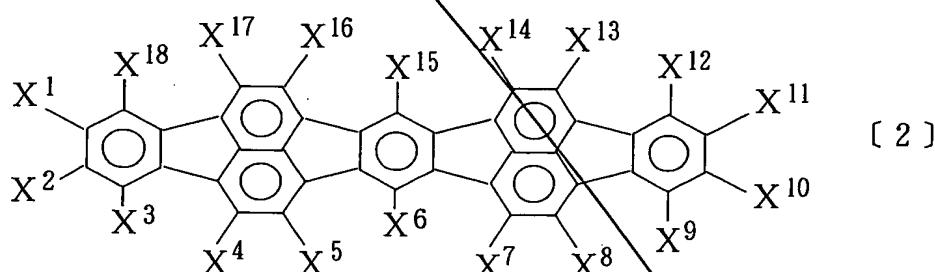


CLAIMS

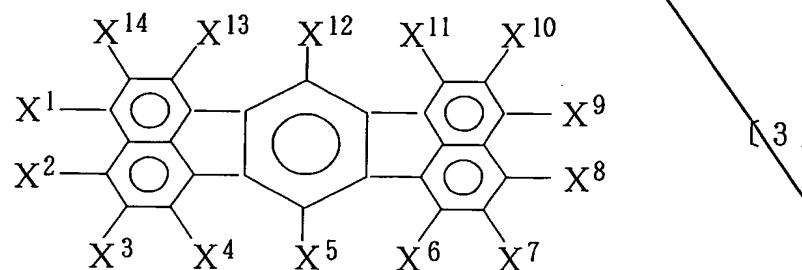
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Pl*
1. An organic electroluminescence device which comprises an organic layer disposed between at least one pair of electrodes, wherein the organic layer comprises a compound having a fluoranthene skeleton structure substituted at least with an amine group or an alkenyl group.
2. An organic electroluminescence device according to Claim 1, wherein said compound is a compound selected from compounds represented by the following general formulae [1] to [18]:



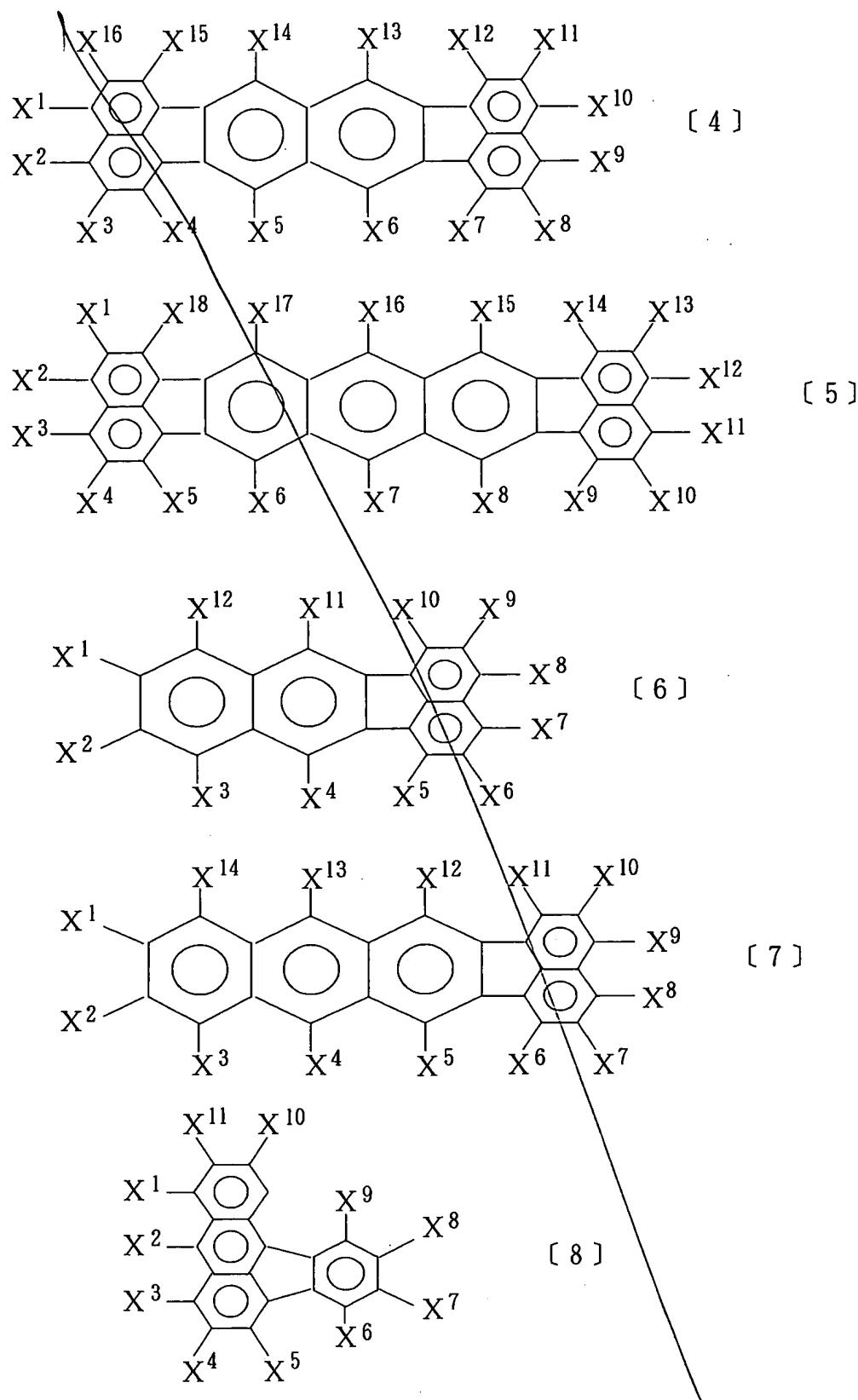
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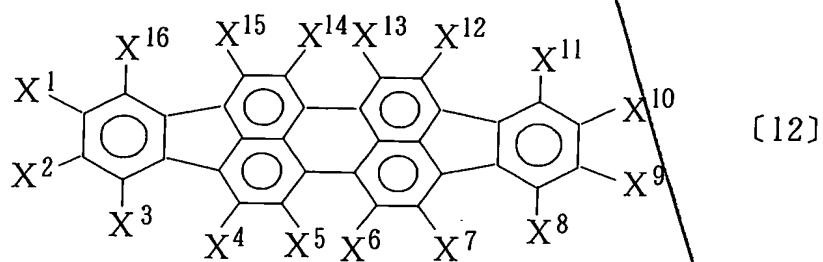
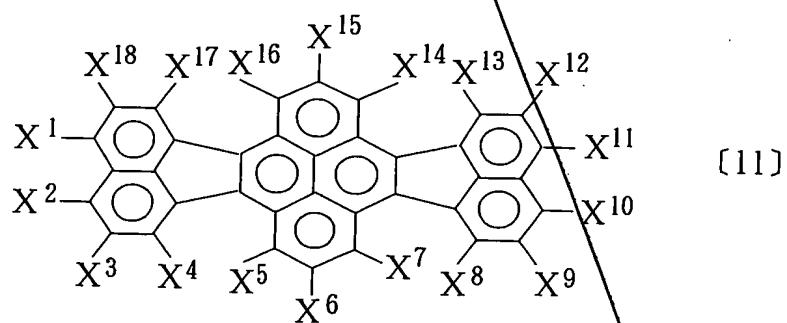
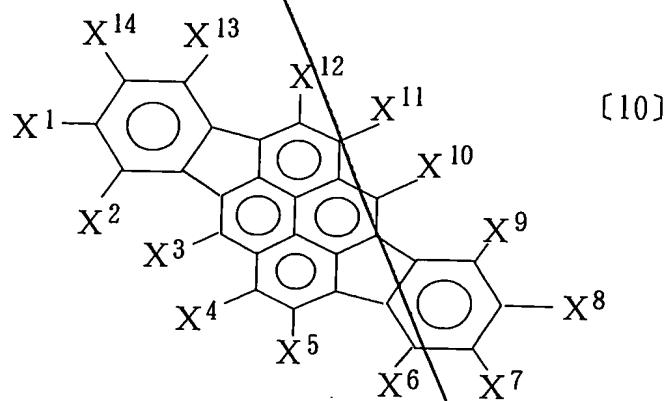
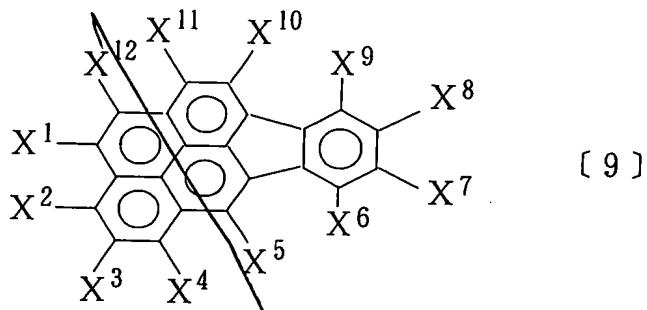


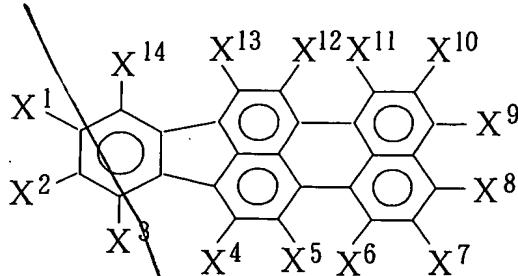
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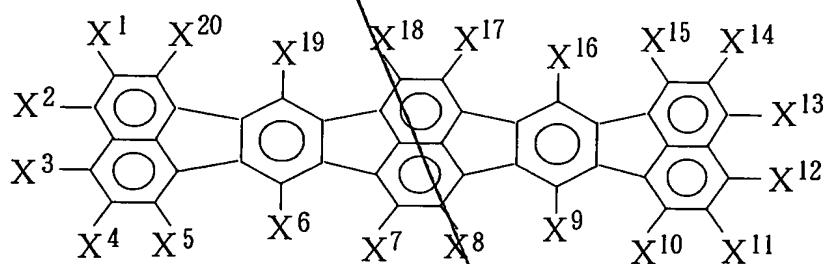
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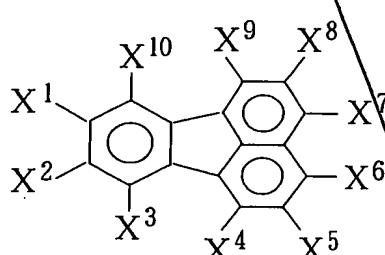




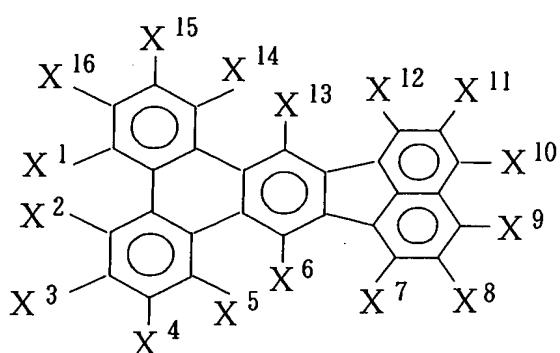
[13]



[14]

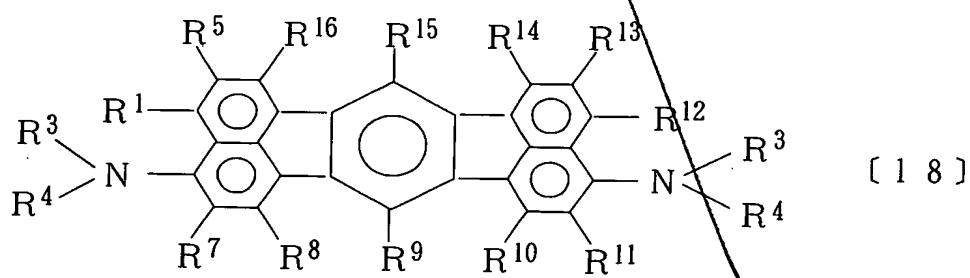
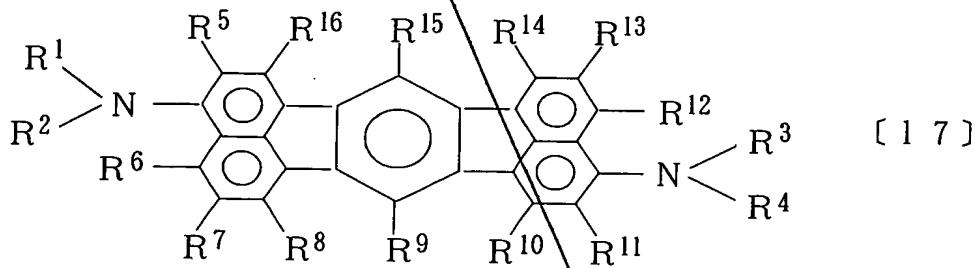


[15]



[16]

wherein X¹ to X²⁰ each independently represents hydrogen atom, a linear, branched or cyclic alkyl group having 1 to 20 carbon atoms, a linear, branched or cyclic alkoxy group having 1 to 20 carbon atoms, a substituted or unsubstituted aryl group having 6 to 30 carbon atoms, a substituted or unsubstituted aryloxy group having 6 to 30 carbon groups, a substituted or unsubstituted arylamino group having 6 to 30 carbon atoms, a substituted or unsubstituted alkylamino group having 1 to 30 carbon atoms, a substituted or unsubstituted arylalkylamino group having 7 to 30 carbon atoms or a substituted or unsubstituted alkenyl groups having 8 to 30 carbon atoms; a pair of adjacent groups represented by X¹ to X²⁰ and a pair of adjacent substituents to groups represented by X¹ to X²⁰ may form a cyclic structure in combination; when a pair of adjacent substituents are aryl groups, the pair of substituents may be a single group; and at least one of substituents represented by X¹ to Xⁱ, i representing a number of 12 to 20, comprises an amine group or an alkenyl group;

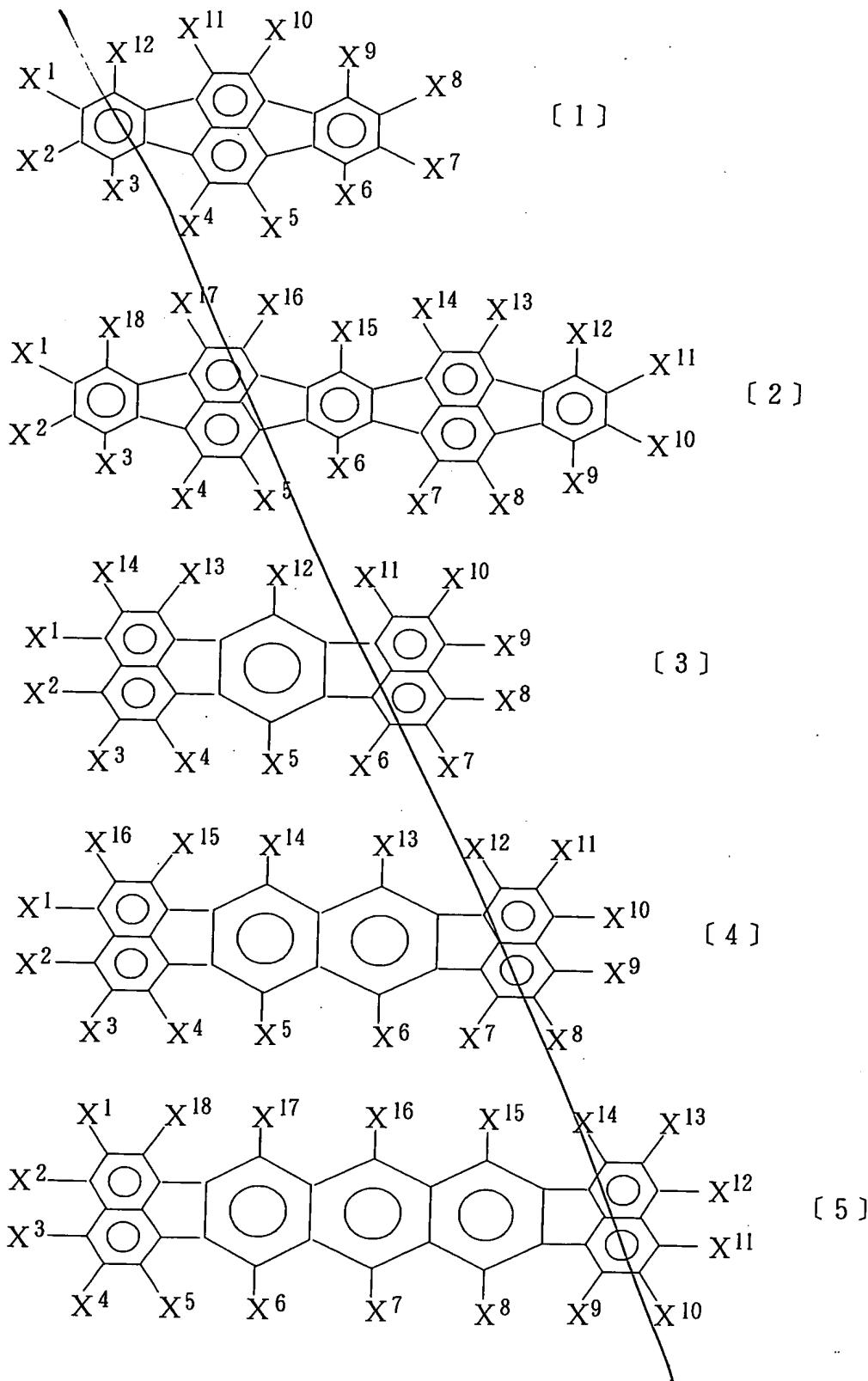


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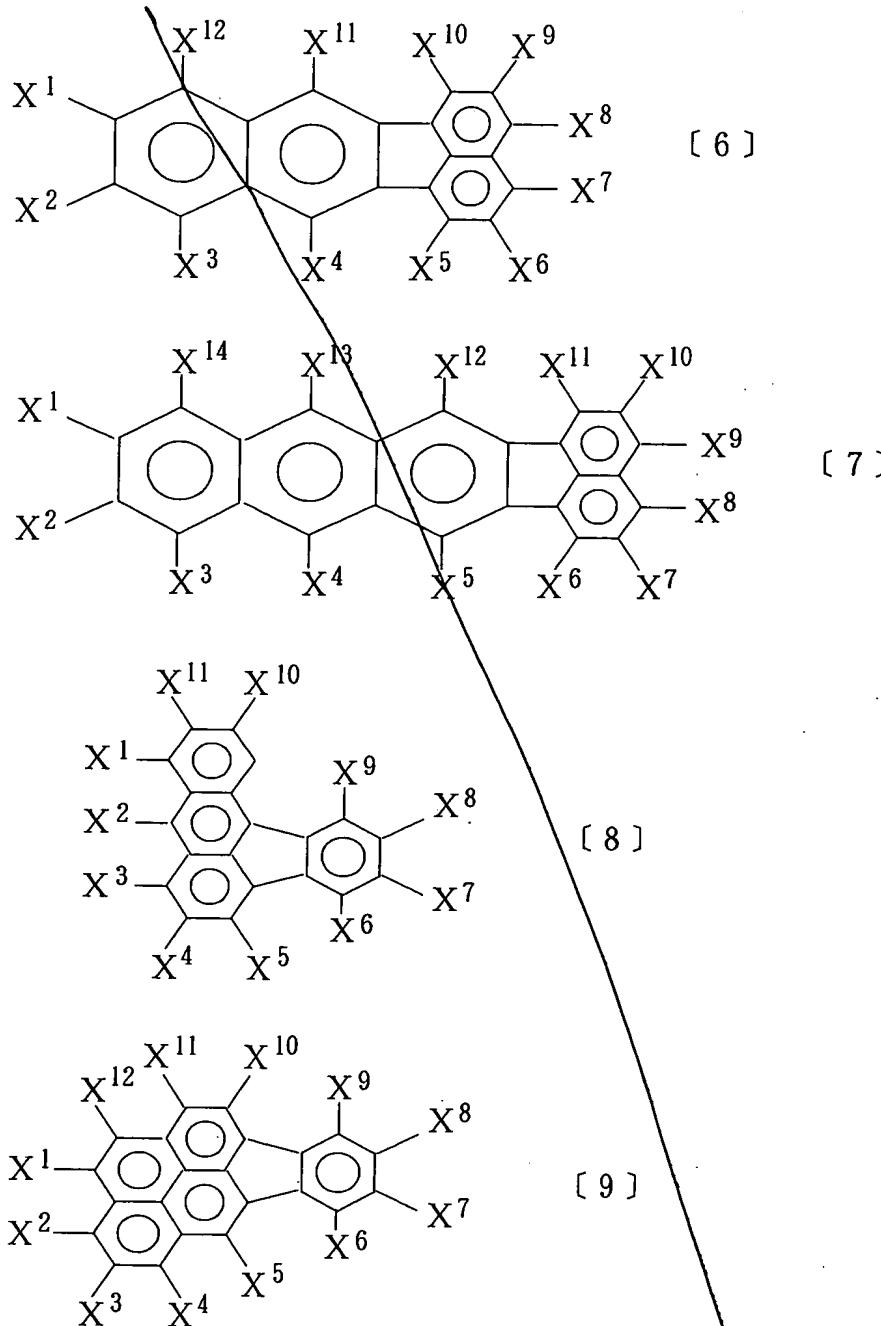
wherein R¹ to R⁴ each independently represent an alkyl group having 1 to 20 carbon atoms or a substituted or unsubstituted aryl group having 6 to 30 carbon atoms; in one or both of a pair of groups represented by R¹ and R² and a pair of groups represented by R³ and R⁴, the groups forming the pair may be bonded through -O- or -S-; R⁵ to R¹⁶ represents hydrogen atom, a linear, branched or cyclic alkyl group having 1 to 20 carbon atoms, a linear, branched or cyclic alkoxy group having 1 to 20 carbon atoms, a substituted or unsubstituted aryl group having 6 to 30 carbon atoms, a substituted or unsubstituted aryloxy group having 6 to 30 carbon groups, a substituted or unsubstituted arylamino group having 6 to 30 carbon atoms, a substituted or unsubstituted alkylamino group having 1 to 30 carbon atoms, a substituted or unsubstituted arylalkylamino group having 7 to 30 carbon atoms or a substituted or unsubstituted alkenyl groups having 8 to 30 carbon atoms; a pair of adjacent groups represented by R⁵ to R¹⁶ and a pair of adjacent substituents to groups represented by R⁵ to R¹⁶ may form a cyclic structure in combination; and at least one of substituents represented by R⁵ to R¹⁶ comprises an amine group or an alkenyl group.

3. An organic electroluminescence device according to any of Claims 1 and 2, wherein the organic layer is at least one of a hole transporting layer and a light emitting layer.
4. An organic electroluminescence device according to Claim 1, wherein the organic layer comprises 1 to 70% by weight of said compound which is selected from compounds represented by general formulae [1] to [18].

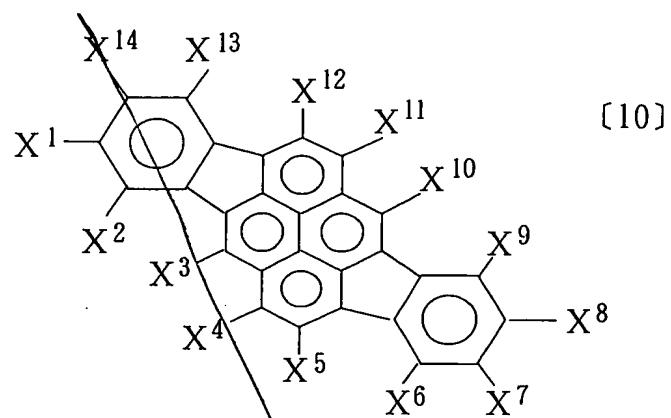
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A
COP*
5. An organic electroluminescence device according to any of Claims 1 to 4, wherein a layer of an inorganic compound is disposed between the organic layer and the electrode.
6. An organic electroluminescence device according to any of Claims 1 to 5, which emits reddish light.
7. An organic electroluminescence device according to Claim 1, wherein the organic layer comprises said compound and isomers thereof.
8. An organic electroluminescence device according to Claim 7, wherein, among said compound and the isomers thereof, a ratio of an amount by mole of an isomer which can emit light having a longer wavelength to an amount by mole of an isomer which can emit light having a shorter wave is in a range of 90:10 to 60:40.
9. An organic electroluminescence device according to Claim 7, wherein, among said compound and the isomers thereof, a ratio of an amount by mole of an isomer represented by general formula [17] to an amount by mole of an isomer represented by general formula [18] is in a range of 90:10 to 60:40.
10. A novel compound represented by any of the following general formulae [1] to [18]:



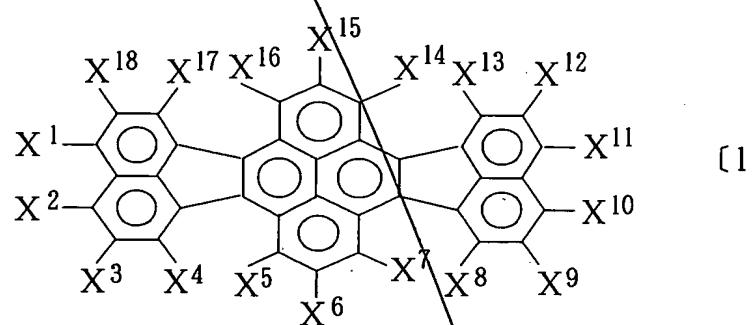
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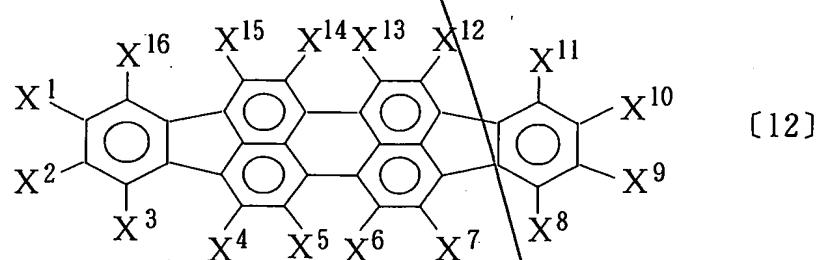
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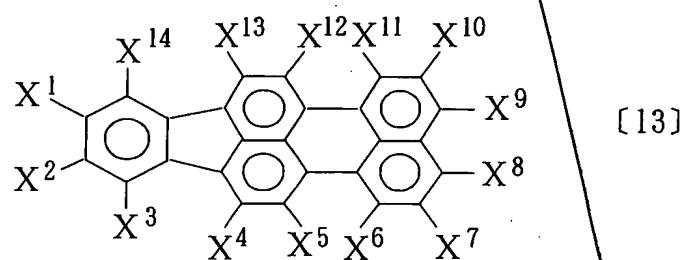
[10]



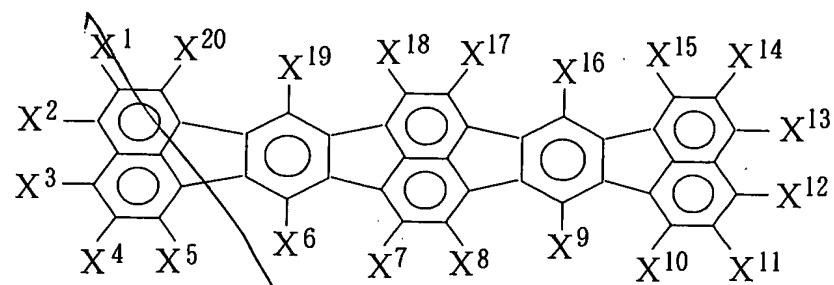
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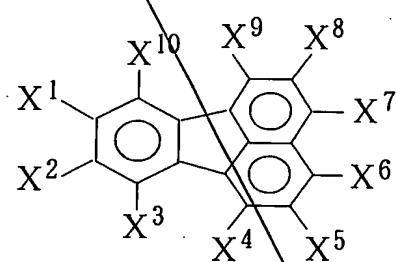
[12]



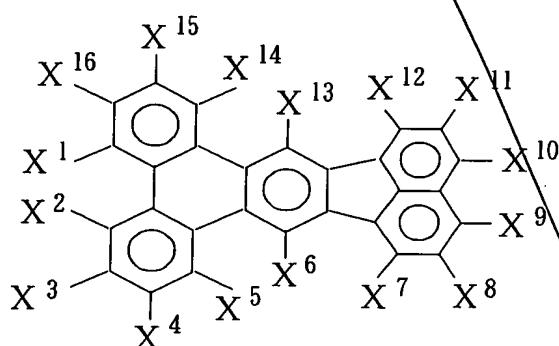
[13]



[14]



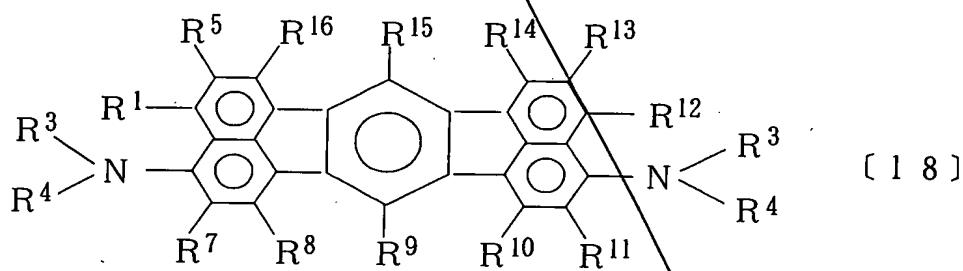
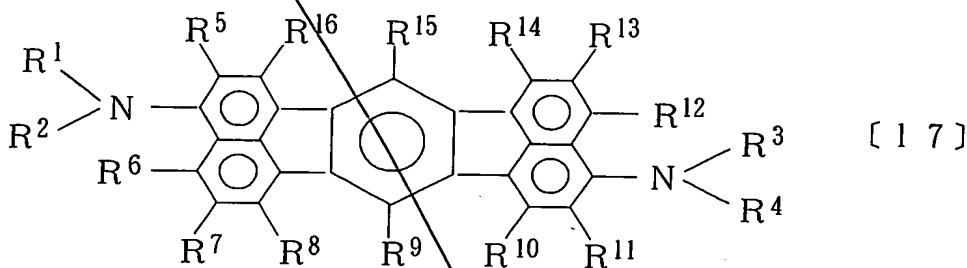
[15]



[16]

wherein X¹ to X²⁰ each independently represents hydrogen atom, a linear, branched or cyclic alkyl group having 1 to 20 carbon atoms, a linear, branched or cyclic alkoxy group having 1 to 20 carbon atoms, a substituted or unsubstituted aryl group having 6 to 30 carbon atoms, a substituted or unsubstituted aryloxy group having 6 to 30 carbon groups, a substituted or unsubstituted arylamino group having 6 to 30 carbon atoms, a substituted or unsubstituted alkylamino group having 1 to 30 carbon atoms, a

substituted or unsubstituted arylalkylamino group having 7 to 30 carbon atoms or a substituted or unsubstituted alkenyl groups having 8 to 30 carbon atoms; a pair of adjacent groups represented by X¹ to X²⁰ and a pair of adjacent substituents to groups represented by X¹ to X²⁰ may form a cyclic structure in combination; when a pair of adjacent substituents are aryl groups, the pair of substituents may be a single group; and at least one of substituents represented by X¹ to Xⁱ, i representing a number of 12 to 20, comprises an amine group or an alkenyl group;



wherein R¹ to R⁴ each independently represent an alkyl group having 1 to 20 carbon atoms or a substituted or unsubstituted aryl group having 6 to 30 carbon atoms; in one or both of a pair of groups represented by R¹ and R² and a pair of groups represented by R³ and R⁴, the groups forming the pair may be bonded through -O- or -S-; R⁵ to R¹⁶ represents hydrogen

*Sub
R1
CONH*

atom, a linear, branched or cyclic alkyl group having 1 to 20 carbon atoms, a linear, branched or cyclic alkoxy group having 1 to 20 carbon atoms, a substituted or unsubstituted aryl group having 6 to 30 carbon atoms, a substituted or unsubstituted aryloxy group having 6 to 30 carbon groups, a substituted or unsubstituted arylamino group having 6 to 30 carbon atoms, a substituted or unsubstituted alkylamino group having 1 to 30 carbon atoms, a substituted or unsubstituted arylalkylamino group having 7 to 30 carbon atoms or a substituted or unsubstituted alkenyl groups having 8 to 30 carbon atoms; a pair of adjacent groups represented by R⁵ to R¹⁶ and a pair of adjacent substituents to groups represented by R⁵ to R¹⁶ may form a cyclic structure in combination; and at least one of substituents represented by R⁵ to R¹⁶ comprises an amine group or an alkenyl group.

*ADD
AR1
R5-R16*

*4
R5-R16*